

ABSTRACT OF THE DISCLOSURE

An angle detection device that accurately detects a rotational angle even if the ratio of an detection voltage relative to an excitation voltage of a resolver fluctuates. The angle detection device includes an angle detector and a controller connected to the angle detector. The angle detector includes an excitation coil, which is arranged on a predetermined rotary shaft and supplied with excitation voltage, and a pair of detection coils. Each detection coil is arranged near the excitation coil to induce detection voltage when excitation voltage excites the excitation coil. The detection voltages of the detection coils have different phases. A controller calculates the rotational angle of the excitation coil with the detection voltages induced to the detection coils. Further, the controller includes a correction unit for correcting the amplitude of the excitation voltage to maintain each of the induced detection voltages at a predetermined value.